MATHEMATICS OF THE USSR-SBORNIK

Volume 73, Number 1, 1992

V. P. Golubyatnikov, *On unique recoverability of convex and visible compacta from their projections* 1

M. I. D'yachenko, *Almost everywhere convergence of multiple Fourier series of monotonic functions* 11

V. A. Kozlov and V. G. Maz'ya, *On the spectrum of the operator pencil generated by the Dirichlet problem in a cone* 27

Yu. F. Korobeĭnik, *Nontrivial expansions of zero in absolutely representing systems. Applications to convolution operators* 49

B. V. Loginov and N. A. Sidorov, *Group symmetry of the Lyapunov-Schmidt branching equation and iterative methods in the problem of a bifurcation point* 67

S. A. Nazarov, *Asymptotics of the solution of the Dirichlet problem for an equation with rapidly oscillating coefficients in a rectangle* 79

K. Yu. Osipenko, *Best and optimal recovery methods for classes of harmonic functions* 111

A. A. Premet, *The theorem on restriction of invariants, and nilpotent elements in W_n* 135

A. N. Starkov, *Horospherical flows on homogeneous spaces of finite volume* 161

A. K. Gushchin and V. P. Mikhaĭlov, *On the existence of boundary values of solutions of an elliptic equation* 171

B. N. Khabibullin, *A uniqueness theorem for subharmonic functions of finite order* 195

A. B. Shishkin, *Spectral synthesis for an operator generated by multiplication by a power of the independent variable* 211

V. V. Katrakhov, *On a singular boundary value problem for the Poisson equation* 231

M. F. Sukhinin, *Lower semi-Taylor mappings and sufficient conditions for an extremum* 257

M. V. Samokhin, *Some classical problems in the theory of analytic functions in domains of Parreau-Widom type* 273

B. R. Vaĭnberg, *Scattering by periodically moving obstacles* 289

Volume 73, Number 2, 1992

A. M. Gaĭsin, *Strong incompleteness of a system of exponentials, and Macintyre's problem* 305

V. V. Goncharov and A. A. Tolstonogov, *Joint continuous selections of multivalued mappings with nonconvex values, and their applications* 319

M. I. Zelikin, *On the theory of the matrix Riccati equation* 341

K. S. Kazaryan, *Divergent orthogonal Fourier series* 355

V. E. Maĭorov, *Multiplicative inequalities for derivatives, and a priori estimates of smoothness of solutions of nonlinear differential equations* 379

P. I. Naumkin and I. A. Shishmarëv, *The asymptotics as $t \to \infty$ of solutions of a nonlinear nonlocal Schrödinger equation* 393

I. M. Ovsyannikov and L. P. Shil'nikov, *Systems with a homoclinic curve of multidimensional saddle-focus type, and spiral chaos* 415

V. A. Roman'kov, *Primitive elements of free groups of rank* 3 445

E. R. Avakov, A. A. Agrachev, and A. V. Arutyunov, *The level set of a smooth mapping in a neighborhood of a singular point, and zeros of a quadratic mapping* 455

V. A. Aleksandrov, *Imbedding locally Euclidean and conformally Euclidean metrics* 467

A. A. Gonchar, N. N. Novikova, and G. M. Khenkin, *Multipoint Padé approximants in the inverse Sturm-Liouville problem* 479

K. N. Ponomarev, *Minimal solvable algebraic groups and their abstract isomorphisms* 491

S. V. Rychkov, *On verbal factors of almost free groups in varieties* 501

Sh. T. Tetunashvili, *On some multiple function series and the solution of the uniqueness problem for Pringsheim convergence of multiple trigonometric series* 517

Fam Khyu T'ep [Phạm Hữu Tiệp], *Weil representations of finite symplectic groups, and Gow lattices* 535

V. F. Akulov and A. E. Shishkov, *On asymptotic properties of solutions of mixed problems for quasilinear parabolic equations in unbounded domains* 557

D. I. Panyushev, *The canonical module of a quasihomogeneous normal affine SL_2-variety* 569

A. A. Shkalikov and A. V. Shkred, *The problem of steady-state oscillations of a transversally isotropic half-cylinder* 579

Index to Volume 73 603